

Weitao Zheng

List of Publications by Year in descending order

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422
papers

19,584
citations

10986

71
h-index

19749

117
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429
all docs

429
docs citations

429
times ranked

23659
citing authors

#	ARTICLE	IF	CITATIONS
1	Light scattering and surface plasmons on small spherical particles. <i>Light: Science and Applications</i> , 2014, 3, e179-e179.	16.6	450
2	Polymer-passivated Inorganic Cesium Lead Mixed-halide Perovskites for Stable and Efficient Solar Cells with High Open-circuit Voltage over 1.3 V. <i>Advanced Materials</i> , 2018, 30, 1705393.	21.0	401
3	Towards High-safe Lithium Metal Anodes: Suppressing Lithium Dendrites via Tuning Surface Energy. <i>Advanced Science</i> , 2017, 4, 1600168.	11.2	399
4	Single-atom cobalt array bound to distorted 1T MoS ₂ with ensemble effect for hydrogen evolution catalysis. <i>Nature Communications</i> , 2019, 10, 5231.	12.8	371
5	Adsorption and Diffusion of Li on Pristine and Defective Graphene. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 2432-2438.	8.0	363
6	Trifluoroacetate induced small-grained CsPbBr ₃ perovskite films result in efficient and stable light-emitting devices. <i>Nature Communications</i> , 2019, 10, 665.	12.8	350
7	Formation Mechanism of β -Phase in PVDF/CNT Composite Prepared by the Sonication Method. <i>Macromolecules</i> , 2009, 42, 8870-8874.	4.8	300
8	Rational Design of Fe-N/C Hybrid for Enhanced Nitrogen Reduction Electrocatalysis under Ambient Conditions in Aqueous Solution. <i>ACS Catalysis</i> , 2019, 9, 336-344.	11.2	278
9	Smoothing the energy transfer pathway in quasi-2D perovskite films using methanesulfonate leads to highly efficient light-emitting devices. <i>Nature Communications</i> , 2021, 12, 1246.	12.8	274
10	Global Structural Optimization of Tungsten Borides. <i>Physical Review Letters</i> , 2013, 110, 136403.	7.8	253
11	Atomic-level energy storage mechanism of cobalt hydroxide electrode for pseudocapacitors. <i>Nature Communications</i> , 2017, 8, 15194.	12.8	250
12	Water-Assisted Size and Shape Control of CsPbBr ₃ Perovskite Nanocrystals. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 3337-3342.	13.8	223
13	Inorganic CsPbI ₂ Br Perovskite Solar Cells: The Progress and Perspective. <i>Solar Rrl</i> , 2019, 3, 1800239.	5.8	217
14	Pressure Effects on Structure and Optical Properties in Cesium Lead Bromide Perovskite Nanocrystals. <i>Journal of the American Chemical Society</i> , 2017, 139, 10087-10094.	13.7	214
15	Constructing 2D graphitic carbon nitride nanosheets/layered MoS ₂ /graphene ternary nanojunction with enhanced photocatalytic activity. <i>Applied Catalysis B: Environmental</i> , 2018, 225, 468-476.	20.2	208
16	Spontaneous Silver Doping and Surface Passivation of CsPbI ₃ Perovskite Active Layer Enable Light-Emitting Devices with an External Quantum Efficiency of 11.2%. <i>ACS Energy Letters</i> , 2018, 3, 1571-1577.	17.4	205
17	Inverted Design for High-performance Supercapacitor Via Co(OH) ₂ -Derived Highly Oriented MOF Electrodes. <i>Advanced Energy Materials</i> , 2018, 8, 1702294.	19.5	205
18	Adsorption of Single Li and the Formation of Small Li Clusters on Graphene for the Anode of Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 7793-7797.	8.0	190

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19	N, S co-doped graphene quantum dots-graphene-TiO ₂ nanotubes composite with enhanced photocatalytic activity. <i>Journal of Alloys and Compounds</i> , 2017, 691, 369-377.	5.5	187
20	A Review for Aqueous Electrochemical Supercapacitors. <i>Frontiers in Energy Research</i> , 2015, 3, .	2.3	174
21	Reactive magnetron sputter deposited CNx: Effects of N ₂ pressure and growth temperature on film composition, bonding, and microstructure. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1996, 14, 2696-2701.	2.1	172
22	Density Functional Theory Calculations for the Quantum Capacitance Performance of Graphene-Based Electrode Material. <i>Journal of Physical Chemistry C</i> , 2015, 119, 6464-6470.	3.1	166
23	Saturation magnetization of ferromagnetic and ferrimagnetic nanocrystals at room temperature. <i>Journal Physics D: Applied Physics</i> , 2007, 40, 320-325.	2.8	164
24	Synthesis of Co(OH) ₂ /graphene/Ni foam nano-electrodes with excellent pseudocapacitive behavior and high cycling stability for supercapacitors. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 11846-11852.	7.1	163
25	Ultrahigh capacitive performance from both Co(OH) ₂ /graphene electrode and K ₃ Fe(CN) ₆ electrolyte. <i>Scientific Reports</i> , 2013, 3, 2986.	3.3	158
26	Hydrogen Stabilized RhPdH 2D Bimetallic Nanosheets for Efficient Alkaline Hydrogen Evolution. <i>Journal of the American Chemical Society</i> , 2020, 142, 3645-3651.	13.7	152
27	PbS Capped CsPb ₃ Nanocrystals for Efficient and Stable Light-Emitting Devices Using Core-Shell Structures. <i>ACS Central Science</i> , 2018, 4, 1352-1359.	11.3	141
28	Well-dispersed palladium nanoparticles on graphene oxide as a non-enzymatic glucose sensor. <i>RSC Advances</i> , 2012, 2, 6245.	3.6	138
29	Reduced graphene oxide/CdS for efficiently photocatalytic degradation of methylene blue. <i>Journal of Alloys and Compounds</i> , 2012, 524, 5-12.	5.5	136
30	Hydrogen-bond relaxation dynamics: Resolving mysteries of water ice. <i>Coordination Chemistry Reviews</i> , 2015, 285, 109-165.	18.8	136
31	Recent progress of TMD nanomaterials: phase transitions and applications. <i>Nanoscale</i> , 2020, 12, 1247-1268.	5.6	132
32	Highly Carbon-Doped TiO ₂ Derived from MXene Boosting the Photocatalytic Hydrogen Evolution. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 13480-13486.	6.7	130
33	Decoration of the inert basal plane of defect-rich MoS ₂ with Pd atoms for achieving Pt-similar HER activity. <i>Journal of Materials Chemistry A</i> , 2016, 4, 4025-4031.	10.3	122
34	Coordination-Resolved Electron Spectrometrics. <i>Chemical Reviews</i> , 2015, 115, 6746-6810.	47.7	121
35	Development of microstructure CO sensor based on hierarchically porous ZnO nanosheet thin films. <i>Sensors and Actuators B: Chemical</i> , 2012, 173, 897-902.	7.8	120
36	Density and Phonon-Stiffness Anomalies of Water and Ice in the Full Temperature Range. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 3238-3244.	4.6	116

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37	(EMIm) ⁺ (PF ₆) ⁻ Ionic Liquid Unlocks Optimum Energy/Power Density for Architecture of Nanocarbon-Based Dual-Ion Battery. <i>Advanced Energy Materials</i> , 2016, 6, 1601378.	19.5	116
38	Density, Elasticity, and Stability Anomalies of Water Molecules with Fewer than Four Neighbors. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 2565-2570.	4.6	115
39	Revealing the Intrinsic Peroxidase-Like Catalytic Mechanism of Heterogeneous Single-Atom Co-MoS ₂ . <i>Nano-Micro Letters</i> , 2019, 11, 102.	27.0	114
40	One-Step Synthesis of a Self-Supported Copper Phosphide Nanobush for Overall Water Splitting. <i>ACS Omega</i> , 2016, 1, 1367-1373.	3.5	113
41	NiAl(110)-Cr(110)interface: A density functional theory study. <i>Physical Review B</i> , 2006, 73, .	3.2	112
42	Experimental and modelling investigations on strain rate sensitivity of an electrodeposited 20-nm grain sized Ni. <i>Journal Physics D: Applied Physics</i> , 2007, 40, 7440-7446.	2.8	110
43	Single Atom Excels as the Smallest Functional Material. <i>Advanced Functional Materials</i> , 2016, 26, 2988-2993.	14.9	110
44	Tent-pitching-inspired high-valence period 3-cation pre-intercalation excels for anode of 2D titanium carbide (MXene) with high Li storage capacity. <i>Energy Storage Materials</i> , 2019, 16, 163-168.	18.0	110
45	A novel low compressible and superhard carbon nitride: Body-centered tetragonal CN ₂ . <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 13081.	2.8	108
46	Anomalous Stress Response of Ultrahard WB_n . <i>Physical Review Letters</i> , 2015, 115, 185502.	7.8	107
47	Favorable Energy Band Alignment of TiO ₂ Anatase/Rutile Heterophase Homojunctions Yields Photocatalytic Hydrogen Evolution with Quantum Efficiency Exceeding 45.6%. <i>Advanced Energy Materials</i> , 2022, 12, .	19.5	106
48	Photo-assisted preparation and patterning of large-area reduced graphene oxide-TiO ₂ conductive thin film. <i>Chemical Communications</i> , 2010, 46, 3499.	4.1	105
49	Amorphous carbon enriched with pyridinic nitrogen as an efficient metal-free electrocatalyst for oxygen reduction reaction. <i>Chemical Communications</i> , 2014, 50, 557-559.	4.1	105
50	Controlling phase transition for single-layer MTe ₂ (M = Mo and W): modulation of the potential barrier under strain. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 4086-4094.	2.8	105
51	Iridium-Triggered Phase Transition of MoS ₂ Nanosheets Boosts Overall Water Splitting in Alkaline Media. <i>ACS Energy Letters</i> , 2019, 4, 368-374.	17.4	105
52	A semiconductor-electrochemistry model for design of high-rate Li ion battery. <i>Journal of Energy Chemistry</i> , 2020, 41, 100-106.	12.9	103
53	Size and interface effects on ferromagnetic and antiferromagnetic transition temperatures. <i>Physical Review B</i> , 2006, 73, .	3.2	102
54	Lattice Mismatch-Induced Ultrastable 1T-Phase MoS ₂ -Pd/Au for Plasmon-Enhanced Hydrogen Evolution. <i>Nano Letters</i> , 2019, 19, 2758-2764.	9.1	98

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55	Electronic fitness function for screening semiconductors as thermoelectric materials. <i>Physical Review Materials</i> , 2017, 1, .	2.4	98
56	2D titanium carbide (MXene) electrodes with lower-F surface for high performance lithium-ion batteries. <i>Journal of Energy Chemistry</i> , 2019, 31, 148-153.	12.9	97
57	Controlled Synthesis of Hollow Cu ₂ Te Nanocrystals Based on the Kirkendall Effect and Their Enhanced CO Gas Sensing Properties. <i>Small</i> , 2013, 9, 793-799.	10.0	94
58	Enhanced ammonia sensing performances of Pd-sensitized flowerlike ZnO nanostructure. <i>Sensors and Actuators B: Chemical</i> , 2011, 156, 395-400.	7.8	92
59	Shape-dependent catalytic activity of oxygen reduction reaction (ORR) on silver nanodecahedra and nanocubes. <i>Journal of Power Sources</i> , 2014, 269, 152-157.	7.8	89
60	The Electronic Properties of Single-Layer and Multilayer MoS ₂ under High Pressure. <i>Journal of Physical Chemistry C</i> , 2015, 119, 10189-10196.	3.1	89
61	Ni(OH) ₂ nanoflakes electrodeposited on Ni foam-supported vertically oriented graphene nanosheets for application in asymmetric supercapacitors. <i>Materials Research Bulletin</i> , 2014, 52, 89-95.	5.2	87
62	Nitrogen/Boron Doping Position Dependence of the Electronic Properties of a Triangular Graphene. <i>ACS Nano</i> , 2010, 4, 7619-7629.	14.6	86
63	Nanoporous Sulfur-Doped Copper Oxide (Cu ₂ O _x S _{1-x}) for Overall Water Splitting. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 745-752.	8.0	83
64	First-principles study of the surface energy and work function of III-V semiconductor compounds. <i>Physical Review B</i> , 2007, 75, .	3.2	82
65	Surface plasmon resonance technique for directly probing the interaction of DNA and graphene oxide and ultra-sensitive biosensing. <i>Biosensors and Bioelectronics</i> , 2014, 58, 374-379.	10.1	81
66	The hidden force opposing ice compression. <i>Chemical Science</i> , 2012, 3, 1455.	7.4	80
67	Size, separation, structural order and mass density of molecules packing in water and ice. <i>Scientific Reports</i> , 2013, 3, 3005.	3.3	76
68	One-step synthesis of band-tunable N, S co-doped commercial TiO ₂ /graphene quantum dots composites with enhanced photocatalytic activity. <i>RSC Advances</i> , 2017, 7, 23319-23327.	3.6	76
69	Field emission properties of N-doped capped single-walled carbon nanotubes: A first-principles density-functional study. <i>Journal of Chemical Physics</i> , 2007, 126, 164702.	3.0	74
70	Valence Band Splitting on Multilayer MoS ₂ : Mixing of Spin-Orbit Coupling and Interlayer Coupling. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 2175-2181.	4.6	73
71	Toughness enhancement and tribochemistry of the Nb-Ag-N films actuated by solute Ag. <i>Acta Materialia</i> , 2017, 137, 1-11.	7.9	73
72	Vertically co-oriented two dimensional metal-organic frameworks for packaging enhanced supercapacitive performance. <i>Communications Chemistry</i> , 2018, 1, .	4.5	73

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73	Improving the Quantum Capacitance of Graphene-Based Supercapacitors by the Doping and Co-Doping: First-Principles Calculations. ACS Omega, 2019, 4, 13209-13217.	3.5	73
74	Effects of doping nitrogen atoms on the structure and electronic properties of zigzag single-walled carbon nanotubes through first-principles calculations. Nanotechnology, 2007, 18, 165702.	2.6	72
75	Oxygen Vacancies Boost Bi_2O_3 as a High-Performance Electrode for Rechargeable Aqueous Batteries. ACS Applied Materials & Interfaces, 2019, 11, 2103-2111.	8.0	72
76	Energy Level Modification with Carbon Dot Interlayers Enables Efficient Perovskite Solar Cells and Quantum Dot Based Light-Emitting Diodes. Advanced Functional Materials, 2020, 30, 1910530.	14.9	72
77	Hydrothermal reduction of graphene oxide; effect on surface-enhanced Raman scattering. Journal of Raman Spectroscopy, 2017, 48, 97-103.	2.5	70
78	Synthesis of ultrathin wrinkle-free PdCu alloy nanosheets for modulating d-band electrons for efficient methanol oxidation. Journal of Materials Chemistry A, 2018, 6, 8531-8536.	10.3	70
79	Thermally Activated Upconversion Near-Infrared Photoluminescence from Carbon Dots Synthesized via Microwave Assisted Exfoliation. Small, 2019, 15, e1905050.	10.0	70
80	Ar plasma treatment on few layer graphene sheets for enhancing their field emission properties. Journal Physics D: Applied Physics, 2010, 43, 055302.	2.8	69
81	Interaction between graphene and the surface of SiO_2 . Journal of Physics Condensed Matter, 2012, 24, 305004.	1.8	69
82	Raman spectroscopic determination of the length, strength, compressibility, Debye temperature, elasticity, and force constant of the C-C bond in graphene. Nanoscale, 2012, 4, 502-510.	5.6	69
83	High-Pressure Phase Stability and Superconductivity of Pnictogen Hydrides and Chemical Trends for Compressed Hydrides. Chemistry of Materials, 2016, 28, 1746-1755.	6.7	68
84	Engineering of Transition Metal Sulfide Nanostructures as Efficient Electrodes for High-Performance Supercapacitors. ACS Applied Energy Materials, 2022, 5, 6481-6498.	5.1	68
85	Coulomb Repulsion at the Nanometer-Sized Contact: A Force Driving Superhydrophobicity, Superfluidity, Superlubricity, and Supersolidity. Journal of Physical Chemistry C, 2009, 113, 20009-20019.	3.1	67
86	Interstitial Hydrogen Atom Modulation to Boost Hydrogen Evolution in Pd-Based Alloy Nanoparticles. ACS Nano, 2019, 13, 12987-12995.	14.6	67
87	Hydrogen-bond memory and water-skin supersolidity resolving the Mpemba paradox. Physical Chemistry Chemical Physics, 2014, 16, 22995-23002.	2.8	65
88	Highly active zigzag-like Pt-Zn alloy nanowires with high-index facets for alcohol electrooxidation. Nano Research, 2019, 12, 1173-1179.	10.4	65
89	Multidentate Ligand Polyethylenimine Enables Bright Color-Saturated Blue Light-Emitting Diodes Based on CsPbBr_3 Nanoplatelets. ACS Energy Letters, 2021, 6, 477-484.	17.4	65
90	Atomistic origin, temperature dependence, and responsibilities of surface energetics: An extended broken-bond rule. Physical Review B, 2007, 75, .	3.2	64

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91	Rapid and selective H ₂ S detection of hierarchical ZnSnO ₃ nanocages. <i>Sensors and Actuators B: Chemical</i> , 2011, 159, 245-250.	7.8	63
92	Water's phase diagram: From the notion of thermodynamics to hydrogen-bond cooperativity. <i>Progress in Solid State Chemistry</i> , 2015, 43, 71-81.	7.2	63
93	Adsorption of Li on single-layer silicene for anodes of Li-ion batteries. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 8887-8896.	2.8	62
94	Synthesis of graphene on a polycrystalline Co film by radio-frequency plasma-enhanced chemical vapour deposition. <i>Journal Physics D: Applied Physics</i> , 2010, 43, 455402.	2.8	61
95	A common supersolid skin covering both water and ice. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 22987-22994.	2.8	61
96	1D alignment of ZnO@ZIF-8/67 nanorod arrays for visible-light-driven photoelectrochemical water splitting. <i>Applied Surface Science</i> , 2018, 448, 254-260.	6.1	60
97	Graphene oxide-Ag nanocomposite: In situ photochemical synthesis and application as a surface-enhanced Raman scattering substrate. <i>Thin Solid Films</i> , 2011, 520, 179-185.	1.8	59
98	Synthesis of double-shelled SnO ₂ nano-polyhedra and their improved gas sensing properties. <i>Nanoscale</i> , 2015, 7, 3276-3284.	5.6	59
99	Bottom-up growth of homogeneous Moiré superlattices in bismuth oxychloride spiral nanosheets. <i>Nature Communications</i> , 2019, 10, 4472.	12.8	59
100	Electrodeposited Ni(OH) ₂ nanoflakes on graphite nanosheets prepared by plasma-enhanced chemical vapor deposition for supercapacitor electrode. <i>New Journal of Chemistry</i> , 2012, 36, 1902.	2.8	58
101	Highly Ordered Periodic Au/TiO ₂ Hetero-Nanostructures for Plasmon-Induced Enhancement of the Activity and Stability for Ethanol Electro-oxidation. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 5273-5279.	8.0	58
102	Integrating Catalysis of Methane Decomposition and Electrocatalytic Hydrogen Evolution with Ni/CeO ₂ for Improved Hydrogen Production Efficiency. <i>ChemSusChem</i> , 2019, 12, 1000-1010.	6.8	58
103	Synthesis of polyhedron hollow structure Cu ₂ O and their gas-sensing properties. <i>Sensors and Actuators B: Chemical</i> , 2012, 171-172, 135-140.	7.8	56
104	Electrical conductivity of carbon nanotube/poly(vinylidene fluoride) composites prepared by high-speed mechanical mixing. <i>Carbon</i> , 2012, 50, 339-341.	10.3	56
105	Assembly of hierarchical ZnSnO ₃ hollow microspheres from ultra-thin nanorods and the enhanced ethanol-sensing performances. <i>Sensors and Actuators B: Chemical</i> , 2014, 190, 370-377.	7.8	56
106	A high-performance asymmetric supercapacitor based on Co(OH) ₂ /graphene and activated carbon electrodes. <i>Journal of Electroanalytical Chemistry</i> , 2016, 782, 98-102.	3.8	56
107	Perovskite Quantum Dots with Atomic Crystal Shells for Light-Emitting Diodes with Low Efficiency Roll-Off. <i>ACS Energy Letters</i> , 2020, 5, 2927-2934.	17.4	55
108	Improving Photocatalytic Performance from Bi ₂ WO ₆ @MoS ₂ /graphene Hybrids via Gradual Charge Transferred Pathway. <i>Scientific Reports</i> , 2017, 7, 3637.	3.3	53

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109	Stress development during deposition of CN _x thin films. <i>Applied Physics Letters</i> , 1998, 72, 2532-2534.	3.3	52
110	Exploiting the trade-offs of electron transfer in MOF-derived single Zn/Co atomic couples for performance-enhanced zinc-air battery. <i>Applied Catalysis B: Environmental</i> , 2022, 316, 121591.	20.2	51
111	First-principles density-functional investigation of the effect of water on the field emission of carbon nanotubes. <i>Nanotechnology</i> , 2007, 18, 155707.	2.6	50
112	Porous single-crystalline palladium nanoflowers with enriched {100} facets for highly enhanced ethanol oxidation. <i>Nanoscale</i> , 2014, 6, 15090-15097.	5.6	50
113	Ionothermal synthesis and proton-conductive properties of NH ₂ -MIL-53 MOF nanomaterials. <i>CrystEngComm</i> , 2016, 18, 525-528.	2.6	50
114	Synthesis and the improved sensing properties of hierarchical SnO ₂ hollow nanosheets with mesoporous and multilayered interiors. <i>Sensors and Actuators B: Chemical</i> , 2016, 222, 354-361.	7.8	49
115	Zipper-Inspired SEI Film for Remarkably Enhancing the Stability of Li Metal Anode via Nucleation Barriers Controlled Weaving of Lithium Pits. <i>Advanced Energy Materials</i> , 2018, 8, 1800650.	19.5	49
116	Modeling lattice expansion and cohesive energy of nanostructured materials. <i>Applied Physics Letters</i> , 2009, 95, .	3.3	48
117	Stable Bimetallene Hydride Boosts Anodic CO Tolerance of Fuel Cells. <i>ACS Energy Letters</i> , 2021, 6, 1912-1919.	17.4	48
118	Discriminative generation and hydrogen modulation of the Dirac-Fermi polarons at graphene edges and atomic vacancies. <i>Carbon</i> , 2011, 49, 3615-3621.	10.3	47
119	Electron Scattering and Electrical Conductance in Polycrystalline Metallic Films and Wires: Impact of Grain Boundary Scattering Related to Melting Point. <i>ACS Nano</i> , 2010, 4, 3781-3788.	14.6	46
120	Carbon-Based Dual-Ion Battery with Enhanced Capacity and Cycling Stability. <i>ChemElectroChem</i> , 2018, 5, 3612-3618.	3.4	46
121	Modulation of Hydrogen Evolution Catalytic Activity of Basal Plane in Monolayer Platinum and Palladium Dichalcogenides. <i>ACS Omega</i> , 2018, 3, 10058-10065.	3.5	46
122	Layered Ti ₂ O: a model thermoelectric material. <i>Journal of Materials Chemistry C</i> , 2019, 7, 5094-5103.	5.5	46
123	Shape Control of Metal Halide Perovskite Single Crystals: From Bulk to Nanoscale. <i>Chemistry of Materials</i> , 2020, 32, 7602-7617.	6.7	46
124	Engineering graphene/carbon nanotube hybrid for direct electron transfer of glucose oxidase and glucose biosensor. <i>Journal of Applied Electrochemistry</i> , 2012, 42, 875-881.	2.9	45
125	Cu-Doped Layered Double Hydroxide Constructs the Performance-Enhanced Supercapacitor Via Band Gap Reduction and Defect Triggering. <i>ACS Applied Energy Materials</i> , 2022, 5, 2192-2201.	5.1	45
126	Electrical conductivity of poly(vinylidene fluoride)/carbon nanotube composites with a spherical substructure. <i>Carbon</i> , 2009, 47, 2118-2120.	10.3	44

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127	Low-temperature synthesis of porous hollow structured Cu ₂ O for photocatalytic activity and gas sensor application. RSC Advances, 2013, 3, 18651.	3.6	44
128	Real-space observation of strong metal-support interaction: state-of-the-art and what's the next. Journal of Microscopy, 2016, 262, 203-215.	1.8	44
129	Effects of substrate bias on the preferred orientation, phase transition and mechanical properties for NbN films grown by direct current reactive magnetron sputtering. Journal of Applied Physics, 2008, 104, .	2.5	43
130	A Switch of the Oxidation State of Graphene Oxide on a Surface Plasmon Resonance Chip. ACS Applied Materials & Interfaces, 2013, 5, 2096-2103.	8.0	43
131	Ultrathin nanorod-assembled SnO ₂ hollow cubes for high sensitive n-butanol detection. Sensors and Actuators B: Chemical, 2019, 283, 693-704.	7.8	43
132	MOFs fertilized transition-metallic single-atom electrocatalysts for highly-efficient oxygen reduction: Spreading the synthesis strategies and advanced identification. Journal of Energy Chemistry, 2022, 67, 391-422.	12.9	43
133	Dependence of the blocking temperature in exchange biased ferromagnetic/antiferromagnetic bilayers on the thickness of the antiferromagnetic layer. Nanotechnology, 2007, 18, 155701.	2.6	42
134	Raman spectroscopy determination of the Debye temperature and atomic cohesive energy of CdS, CdSe, Bi ₂ Se ₃ , and Sb ₂ Te ₃ nanostructures. Journal of Applied Physics, 2012, 112, .	2.5	42
135	Perspective: <i>n</i> -type oxide thermoelectrics via visual search strategies. APL Materials, 2016, 4, .	5.1	42
136	Plasmonic-induced inhibition and enhancement of the electrocatalytic activity of Pd-Au hetero-nanoraspberries for ethanol oxidation. Journal of Power Sources, 2016, 316, 29-36.	7.8	42
137	Adsorption and Formation of Small Na Clusters on Pristine and Double-Vacancy Graphene for Anodes of Na-Ion Batteries. ACS Applied Materials & Interfaces, 2017, 9, 17076-17084.	8.0	42
138	Pd-loaded SnO ₂ ultrathin nanorod-assembled hollow microspheres with the significant improvement for toluene detection. Sensors and Actuators B: Chemical, 2017, 243, 465-474.	7.8	42
139	Crystallization of SiC and its effects on microstructure, hardness and toughness in TaC/SiC multilayer films. Ceramics International, 2018, 44, 613-621.	4.8	41
140	Amine-Terminated Carbon Dots Linking Hole Transport Layer and Vertically Oriented Quasi-2D Perovskites through Hydrogen Bonds Enable Efficient LEDs. ACS Nano, 2022, 16, 9679-9690.	14.6	41
141	Size distribution-controlled preparation of graphene oxide nanosheets with different C/O ratios. Materials Chemistry and Physics, 2013, 139, 8-11.	4.0	40
142	Thermoelectric properties of p-type cubic and rhombohedral GeTe. Journal of Applied Physics, 2018, 123, .	2.5	40
143	Photovoltaic properties of graphene oxide sheets beaded with ZnO nanoparticles. Journal of Solid State Chemistry, 2011, 184, 881-887.	2.9	39
144	One-pot hydrothermal synthesis of mesoporous Zn _x Cd _{1-x} S/reduced graphene oxide hybrid material and its enhanced photocatalytic activity. Dalton Transactions, 2014, 43, 12894.	3.3	39

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145	Controllable formation of multi-layered SnO ₂ @Fe ₂ O ₃ sandwich cubes as a high-performance anode for Li-ion batteries. <i>Nanoscale</i> , 2017, 9, 17576-17584.	5.6	39
146	Quantum Capacitance of Silicene-Based Electrodes from First-Principles Calculations. <i>Journal of Physical Chemistry C</i> , 2018, 122, 1903-1912.	3.1	39
147	First principles study on 2H \rightarrow 1T \rightarrow 2 transition in MoS ₂ with copper. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 26986-26994.	2.8	39
148	MXene-Based Quantum Dots Optimize Hydrogen Production via Spontaneous Evolution of Cl \rightarrow to O \rightarrow Terminated Surface Groups. <i>Energy and Environmental Materials</i> , 2023, 6, .	12.8	39
149	Field emission enhancement of amorphous carbon films by nitrogen-implantation. <i>Carbon</i> , 2004, 42, 2309-2314.	10.3	38
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